



Implementation Plan for Third West Substation Work Plan
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1 Attachment



Third West Contractor Implementation Plan .pdf

Craig & Joyce,

Attached is Cache Valley Electric's Implementation Plan in regards to the PacifiCorp Work Plan for the Third West Substation Upgrade Project submitted June 23rd, 2011. Please review and provide comments.

Cache Valley Electric is scheduled to set up controls later this week and next week at the site. Please let us know immediately if there are major concerns with the implementation plan.

I scheduled a meeting Monday at 11:00am at the substation to walk through the plan and address any questions and concerns. Joyce, we recognize you will very likely not be able to attend but wanted to keep you informed of the meeting regardless.

Sincerely,

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CONTRACTOR
IMPLEMENTATION PLAN
OF THE
THIRD WEST SUBSTATION
2011 UPGRADE PROJECT
WORK PLAN
JUNE 2011



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INTRODUCTION

This document is an implementation plan to the Third West Substation 2011 Upgrade Project Work Plan June 2011, reviewed by the Utah Department of Environmental Quality and Environmental Protection Agency. This implementation plan is intended to more fully detail the means and methods to be implemented to meet the criteria set forth by OSHA, EPA, DEQ, and any local and state requirements and to meet all criteria identified in the work plan.

The means and methods below were created based on available information and known site conditions. If site conditions change, means and methods will be immediately communicated to Craig Bamitz prior to implementation.

WORK ZONES AND PHASING PLAN

WORK ZONES

To facilitate construction activities and limit personnel exposure, the site will be divided into three work zones. Proposed work zones are delineated and attached as Exhibits 1, 2, and 3 following this document.

Work zones will delineate between exclusion zones and non-exclusion zones. Depending on the phase of work, each zone will carry either designation (exclusion and non-exclusion).

On-site delineation will be an exclusion zone barrier between exclusion zones and other work zones to control the movement of personnel and control the migration of contaminated material. Specific access control and entry requirement is detailed later in this document.

PHASING PLAN

PHASE I

Remove superstructures, bus, and any equipment that does not require soil disturbance. This work will occur in all three work zones. This phase will take approximately two-three weeks.

PHASE II

Zone 1

Zone 1 will be the exclusion zone during Phase II of the work (see Exhibit 1). All construction activities that will disturb the soil will be completed during this phase. This includes duct bank, footings and foundations, ground grid, conduit, and cable tray. Upon completion of this phase, the entire zone will be stabilized and no further controlled work will be required.

Zone 1 will be delineated from the other zones using fencing as detailed further in this document.

Zone 2

In parallel with work in Zone 1 excavation, footings and foundations, conduit, and ground grid will be installed in the clean fill in Zone 2. All excavations will be done in bank run that was hauled in during 2005 work. The area that was cleaned will be marked out and delineated; after delineation we will establish the clean area 10' offset to the inside to ensure that no contaminated soil will be disturbed.

Zone 3

No work disturbing soils is anticipated at this time.

This phase will take approximately four-six weeks.

PHASE III

Zone 1

This area is now stabilized. No work disturbing soils is anticipated at this time.

Zone 2

During Phase III this will now be the exclusion zone. We recognize that the majority of Zone 2 has been remediated, in a previous project. All the work in the remediated area will take place prior to disturbing any of the contaminated soils. Once this portion of Phase 2 is complete, we will begin work removing the existing foundations and placing new footings and foundations, conduits, and ground grid.

The zone will be fenced with the temporary fence and the plastic sheeting to delineate Zone 2 from the remainder of the yard. The shower house and the clean room will not move at this time however the entry and exit will change in order to move the workers from an active zone (2) to an inactive zone (1). This will allow for the ingress and egress of personnel. See Exhibit 2 for approximate control locations.

Vehicular Access to allow trucks to haul material from the exclusion zone will be from a gate installed on the East fence (see Exhibit 2) with the controls described later in this document.

Zone 3

No work disturbing soils is anticipated at this time.

This phase will take approximately four-six weeks.

PHASE IV

Zone 1

This area is now stabilized. No work disturbing soils is anticipated at this time.

Zone 2

This area is now stabilized. No work disturbing soils is anticipated at this time.

Zone 3

Fencing will be erected per the controls in this document. The clean room will be relocated to the east end of Zone #3.

Work in this area will include the foundation removal and the installation of the new foundation, building removal and all the grounding, conduit and the necessary grading to finish the sub and stabilize the soils.

This phase will take approximately four-six weeks.

PHASE V

Entire site is stabilized. No soil disturbing work remains. Air monitors, dust control, and SWPPP will continue until work is complete. Fence with plastic sheeting and steel plate access will be removed.

Zone 1

This area is now stabilized. No work disturbing soils is anticipated at this time.

Zone 2

This area is now stabilized. No work disturbing soils is anticipated at this time.

Zone 3

This area is now stabilized. No work disturbing soils is anticipated at this time.

This phase will take approximately ten-twelve weeks.

CONTROLS, PROCESSES AND PROCEDURES

EXCLUSION FENCING

Fencing will be constructed using a 10 foot tall chain link fence covered with plastic sheeting. The fencing will be inspected and maintained to ensure the integrity of the plastic sheeting. The fencing will be a contiguous delineation with controlled ingress and egress for personnel and equipment.

Fencing will be relocated and reconstructed according to the phasing plan.

AIR MONITORING

Air monitors will be placed on the fence at the extents of the site work. Samples will be shipped overnight to be analyzed within 48 hours of the work. Air monitoring will be used to ensure the implemented controls are working as designed.

DUST CONTROL

Dust will be controlled by pre wetting excavation areas prior to digging. Water will also be sprayed during excavation as needed. All trucks will be washed down after being loaded over a raised ramp with a closed containment below. This truck wash out ramp is moveable and will be phased into exclusion zones as needed. An additional power washer will be onsite in the event track out needs to be mitigated.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A SWPPP will be created and filed as required under the UPDES/NPDES General Permit.

Any storm water, and all other water used in processing, will be stored on-site and treated prior to discharge. Captured solids and filters will be disposed of per the disposal procedure in this document.

CONTAMINATED SOIL DISPOSAL

MATERIAL DISPOSAL TRACKING

Material hauled from the site will be disposed at sites permitted to handle regulated material. Truck receipts will be tracked and provided to PacifiCorp's Quality Assurance Inspector on a daily basis.

INGRESS/EGRESS PROCESS AND PROCEDURE

ACCESS CONTROL

To gain entrance on-site, personnel will check into the gate personnel. Proper training credentials will be verified prior to granting entry into the work zone. To enter any part of the work zone, except by exceptions below noted, personnel will need 4-hour asbestos awareness training. Personnel who will enter the exclusion zone will take the HAZWOPER training course. Project hard hat stickers have been obtained and will be fastened onto hard-hats; non-trained individuals will be conspicuous as they will not have the stickers.

Sign-in access sheets will be maintained at the jobsite or available electronically from PacifiCorp. The sign-in sheet will include name, company, training qualifications, and work zone.

The only exceptions to the training are vendors whose involvement is ancillary to the controlled work. Examples of which are steel fabricators, concrete suppliers, sanitary facilities, emergency personnel, etc.

EXCLUSION ZONE PERSONNEL

Personnel will enter the exclusion zone via the Clean Room. Upon entry personnel will suit up in the appropriate PPE cross through the clean room into the exclusion zone.

Personnel will exit the exclusion zone via the Clean Room. Personnel will enter the clean room, wash/shower head, face, and mask, remove mask, disrobe, and shower. After a shower they will dress in regular clothes and leave the site.

EXCLUSION ZONE VEHICULAR

Truck loading areas will be created within the exclusion zones to facilitate the export of material. Steel plates will be placed on the ground from the non-exclusion zones into the exclusion zones where loading will occur. The plates will keep the tires from tracking any controlled material.

Truck beds will be lined with plastic sheeting prior to loading material. Material will be placed atop the plastic sheeting and the sheeting will be folded over the export, taped closed, and covered with transport tarp.

Trucks will then be washed to remove any other material from the vehicle prior to backing out of the site. Water from the washing will be captured and processed for reuse or disposal.

Truck Drivers will not be allowed to exit the vehicle at any point while in the exclusion zone, windows shall remain closed. All prepping, loading, covering, and washing will be performed by personnel with HAZWOPER training in full exclusion zone personal protection equipment. As such, truck drivers will not be HAZWOPER trained.

NON-EXCLUSION ZONE PERSONNEL

Access to the non-exclusion zone will be limited to personnel who have taken Asbestos Awareness training, verified against the training list, and who are wearing the appropriate PPE.

NON-EXCLUSION ZONE VEHICULAR

Vehicular access will not be controlled in the non-exclusion zones, only that the operators are asbestos awareness trained, with the exception of ancillary work from suppliers, etc.

MATERIAL HANDLING

Concrete will be pumped into the exclusion zones. Pump trucks will be set up in non-exclusion zones or outside the work zone where the concrete truck will place concrete into the hopper from the chute. Hoses exposed to contamination will be sprayed off before swinging the boom outside the exclusion zone.

Reinforcing steel, formwork, etc will be placed into the exclusion zone via the haul truck washout area or a temporary opening in the fence. Equipment or personnel in the exclusion zone will perform the final placement.

Equipment and material deliveries will be allowed in the stabilized areas without exclusion zone controls.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EXCLUSION ZONE PPE

At a minimum, personnel will wear Tyvek suits and breathing masks with 3M style filters, safety glasses, safety-toed boots, and hard hats. Personnel will adjust other PPE as required to safely perform the work in accordance with 29 CFR 1926.

NON-EXCLUSION ZONE PPE

At a minimum, personnel will wear long, natural fiber pants, fire retardant shirts, safety glasses, steel toed boots, and hard hats. Personnel will adjust other PPE as required to safely perform the work in accordance with 29 CFR 1926.

INJURIES

LIFE THREATENING INJURIES

If a life threatening emergency occurs in the exclusion zone all work will be stopped and the site will be stabilized as possible. Emergency personnel will be allowed to access the site as required

to stabilize and transport the injured from the site. Reasonable efforts to contain and remove any contaminants leaving the site with the injured or emergency personnel will be taken.

OTHER INJURIES

For all non-life threatening emergencies where the injured can be processed out either alone or with assistance the standard egress procedure will be followed.

TEMPORARY FACILITIES

SANITARY FACILITIES

Exclusion Zone Sanitary Facilities

Sanitary facilities will be placed within the exclusion zone adjacent to the clean room. This facility will be used for urination only. Personnel will wash their hands prior to entering the facility.

Personnel will egress via the clean area and wash off any particulate before exiting the exclusion zone for defecation.

Sanitary facilities inside the work zone will be washed down prior to access by maintenance personnel. The maintenance personnel will access the sanitary facility via a temporary removal of control fence and remove the waste. The fence will be replaced and work will continue.

Non-Exclusion Zone Sanitary Facilities

Sanitary facilities will be placed around the site as needed to accommodate efficient work. Normal maintenance and access is anticipated.

POTABLE WATER

Exclusion Zone Potable

Capped water will be transported into the clean room for personnel consumption. Personnel will shower their mask and head as well as wash their hands prior to consuming water in the exclusion zone.

Non-Exclusion Zone Potable Water

No special controls are required.

COMMUNICATION

Contractor will communicate from the exclusion zone to the non-exclusions zone using two-way radios. Radios in the exclusion zone will be disposed of at the end of the work.

CLOSEOUT

Upon completion of the all work in the exclusion zone equipment will be washed on the haul road plates removing any contaminated material. When all material has been removed the equipment will be removed from the project.

Temporary facilities will be cleaned prior to finishing the project. This includes the sanitary facilities, clean room, etc. The exclusion zone delineation will become vague as the tear down occurs. The site will be stabilized except for the wash zone where the facilities will be located for

cleaning. After cleaning the plates will be cleaned and removed and the contaminated washout will be removed and disposed of at a permitted site.

The entire project will be stabilized at that time and no further controls will be needed as part of this work.

EXHIBIT 1

EXHIBIT 2

EXHIBIT 3